IN THE CLAIMS:

- 1-31. (Previously Canceled)
- 32-45 (Presently Canceled)
- 46-48. (Previously Canceled)
- 49-56. (Presently Canceled)
- 57. (Presently added): A method for identifying a compound capable of treating a cellular growth or proliferative disorder, wherein the cellular growth or proliferative disorder is selected from the group consisting of lung cancer, breast cancer and colon cancer, the method comprising:
 - a) contacting a polypeptide comprising an amino acid sequence which is at least 95% identical to the amino acid sequence of SEQ ID NO:2 or to a fragment comprising at least 200 contiguous amino acids of SEQ ID NO:2, with a test compound under conditions suitable for binding, wherein the polypeptide or fragment thereof has galactosyltransferase-1 activity;
 - b) detecting binding of the test compound to the polypeptide or fragment thereof to identify a test compound that binds to the polypeptide or fragment thereof;
 - c) incubating the test compound which binds to the polypeptide or fragment thereof with cells selected from the group consisting of lung cancer cells, breast cancer cells and colon cancer cells; and
 - d) determining whether or not the test compound inhibits growth or proliferation of the cells to thereby identify a compound capable of treating lung cancer, breast cancer or colon cancer.
- 58. (Presently added): A method for identifying a compound capable of treating a cellular growth or proliferative disorder, wherein the cellular growth or proliferative disorder is selected from the group consisting of lung cancer, breast cancer and colon cancer, the method comprising:

a) contacting a polypeptide comprising the amino acid sequence of SEQ ID NO:2 or a fragment comprising at least 200 contiguous amino acids of SEQ ID NO:2, wherein the polypeptide or fragment thereof has galactosyltransferase-1 activity, with a test compound under conditions suitable for binding;

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- b) detecting binding of the test compound to the polypeptide of fragment thereof to identify a test compound that binds to the polypeptide or fragment thereof;
- c) incubating the test compound which binds to the polypeptide or fragment thereof with cells selected from the group consisting of lung cancer cells, breast cancer cells and colon cancer cells; and
- d) determining whether or not the test compound inhibits growth or proliferation of the cells to thereby identify a compound capable of treating lung cancer, breast cancer or colon cancer.
- 59. (Presently Added): The method of any one of claims 57 or 58, wherein the compound is a small molecule.
- 60. (Presently Added): The method of any one of claims 57 or 58, wherein the polypeptide is encoded by the nucleotide sequence set forth in SEQ ID NO:1 or SEQ ID NO:3.
- 61. (Presently Added): The method of any one of claims 57 or 58, wherein the polypeptide further includes heterologous sequences.
- 62. (Presently Added): The method of any one of claims 57 or 58, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:
 - a) direct detecting of test compound/polypeptide binding;
 - b) a competition binding assay;
 - c) an immunoassay;
 - d) a yeast two-hybrid assay; and
 - e) an assay for galactosyltransferase-1 activity.